The listing of claims will replace all prior versions, and listings, of claims

in the application:

Listing of Claims:

Claim 1.- 10. (Cancelled).

Claim 11. (Currently Amended) A process for manufacturing a

combustion chamber for a rocket drive, comprising:

producing a fibrous structure [[from]] comprising layers of carbon-

containing fibers [[with]] which form a three-dimensional matrix;

producing a ceramic matrix composite material by feeding silicon

into said fibrous structure to form a silicon carbide matrix; and

making at least one composite material jacket of said combustion

chamber from said composite material; wherein, [[.]]

said producing step comprises forming first, second and third layers

of fibers or bundles of fibers, wherein fibers of said first layer extend in a first

direction in space; fibers of said second layer extend in a second direction in

space; and fibers of said third layer extend in a third direction in space; and

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said first, second, and third layers penetrate each other at least

partially; and

said forming of first, second and third layers includes separating

said fibers or bundles of fibers of the respective layers from each other such that

in each layer, fibers or bundles of fibers of another layer can be disposed in

resulting spaces.

Claim 12. (Cancelled)

Claim 13. (Original) A process according to Claim 11, wherein said

first, second and third layers of said fibrous structure are connected together by

means of textile technology.

Claim 14. (Currently Amended) A process according to Claim 13,

wherein said first, second, and third layers are connected together by at least one

of a technique selected from the group consisting of weaving and sewing.

Claim 15. (Original) A process according to Claim 11, further

comprising channel-shaped spaces in at least one of on the surface of the fibrous

structure and in the fibrous structure.

Claim 16. (Currently Amended) A process according to Claim [[11,]] 15,

wherein said channel-shaped spaces are worked into formed in the surface of the

composite material by mechanical treatment.

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Claim 17. (Currently Amended) A process according to Claim 15,

wherein at least [[the]] surface areas of the composite material provided with

said channel-shaped spaces are coated with metal.

Claim 18. (Original) A process according to Claim 16, wherein at least

the surface areas of the composite material provided with said channel-shaped

spaces are coated with metal.

Claim 19. (Previously Presented) A process according to Claim 11,

further comprising arranging channel-shaped contracting bodies on at least one

of on the surface of said fibrous structure and in said fibrous structure.

Claims 20.-22. (Cancelled)

Claim 23. (Currently Amended) A process according to Claim 19,

further comprising A process for manufacturing a combustion chamber for a

rocket drive, comprising:

producing a fibrous structure comprising layers of carbon-

containing fibers which form a three-dimensional matrix, said three-dimensional

matrix having first, second and third layers of fibers, wherein fibers of said first

layer extend in a first direction in space; fibers of said second layer extend in a

second direction in space; and fibers of said third layer extend in a third direction

in space;

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producing a ceramic matrix composite material by feeding silicon into said fibrous structure to form a silicon carbide matrix;

making at least one composite material jacket from said ceramic matrix composite material;

affixing a load-bearing external jacket on said composite material jacket; and

providing an intermediate layer between said external jacket and said composite material jacket, wherein [[the]] a thermal expansion coefficient of said intermediate layer is between [[that]] thermal expansion coefficients of said external jacket and [[that]] of said composite material jacket.

Claim 24. (Currently Amended) A process according to Claim [[22,]] 23, wherein:

said external jacket comprises a metal material;

said intermediate layer comprises a composite material with a metal matrix;

said intermediate layer is affixed on said composite material jacket;

said external jacket comprises a metal material; and

and

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said external jacket is affixed on said intermediate layer.

Claim 25. (Previously Presented) A process according to Claim 23, wherein said providing step comprises:

first affixing a fibrous structure on said composite material jacket;

thereafter depositing a metal material on said fibrous structure with simultaneous infiltration of said fibrous structure with said metal material.

Claim 26. (Original) A process according to Claim 24, wherein said metal material is deposited by means of electroplating.

Claim 27. (Previously presented) A process for manufacturing an intermediate layer between an internal jacket and an external jacket of a combustion chamber for a rocket drive, comprising:

affixing a fibrous structure made of carbon-containing fibers on the internal jacket; and

depositing a metal material on said fibrous structure with simultaneous infiltration of the fibrous structure with said metal material;

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wherein at least one part of the internal jacket or the external

jacket is made of a composite material with fibrous structure of carbon-

containing fibers.

Claim 28. (Currently Amended) A process according to Claim [[26,]] 27,

wherein said metal material is deposited by means of electroplating.

Claim 29. (Currently Amended) A process for manufacturing an

intermediate layer between an internal jacket and an external jacket of a

combustion chamber for a rocket drive, comprising:

affixing a fibrous-structure made of carbon containing fibers on the

internal jacket; and

depositing a metal material on said fibrous structure with

substantially simultaneous infiltration of the fibrous structure with said metal

material; wherein

at least one part of the internal jacket or the external jacket is made

of a composite material with fibrous structure of earbon-containing fibers; and

The process according to Claim 27, wherein

said depositing step includes formation of said external jacket,

substantially simultaneously with infiltration of the fibrous structure with said

metal material.

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Claim 30. (New) The process according to Claim 24, wherein said providing step comprises forming said metal matrix using the same metal material contained in said external jacket.